



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

BULLETIN

OF THE

TORREY BOTANICAL CLUB

VOL. 29

FOUNDED BY WILLIAM H. LEGGETT, 1870

EDITOR  
LUCIEN MARCUS UNDERWOOD

ASSOCIATE EDITORS

NATHANIEL LORD BRITTON	FRANCIS ERNEST LLOYD
CARLTON CLARENCE CURTIS	DANIEL TREMBLY MACDOUGAL
MARSHALL AVERY HOWE	HERBERT MAULE RICHARDS
ANNA MURRAY VAIL	

NEW YORK  
1902  
PUBLISHED FOR THE CLUB  
THE NEW ERA PRINTING HOUSE  
LANCASTER PA.

## CONTENTS

---

- ANDERSON, A. P. *Dasyscypha resinaria* causing Canker Growth on *Abies balsamea* in Minnesota, 23 (Plates 1 and 2).  
*Tilletia horrida* Tak. on Rice Smut in South Carolina, 35.
- ARTHUR, J. C. New Species of Uredineae.—II, 227.
- BANKER, H. J. A historical Review of the proposed Genera of the Hydnaceae, 436.
- BARNHART, J. H. Dates of the "Nova Genera" of Humboldt, Bonpland and Kunth, 585.
- BERRY, E. W. *Liriodendron Celakowskii* Velen., 478.
- BRITTON, E. G. *Trichomanes radicans*, 475.
- BURT, E. A. Some hymenomycetous Fungi from South America, 571.
- CANNON, W. A. A cytological Basis for the Mendelian Laws, 657.
- COOK, M. T. Development of the Embryo-sac and Embryo of *Castalia odorata* and *Nymphaea advena*, 211 (Plates 12, 13).
- COPELAND, E. B. The Conjugation of *Spirogyra crassa* Kg., 161.
- COTTON, J. S. Three new Plants from Washington, 573.
- CURTISS, C. C. Some Observations on Transpiration, 363.
- DURAND, E. J. Studies in North American Discomycetes.—II: Some new or noteworthy Species from Central and Western New York, 458.
- EASTWOOD, A. Some new Species of California Plants, 75 (Plates 6, 7).  
New Species of *Nemophila* from the Pacific Coast, 471 (Plate 21).  
New Western Plants, 523.
- EVANS, A. W. Hepaticae of Puerto Rico, 496 (Plates 22–24).
- GIES, W. J. See KIRKWOOD, J. E.
- GRIFFITHS, D. A novel Seed Planter, 164.  
Concerning some West American Fungi, 290.
- HARPER, R. M. *Taxodium distichum* and related Species with Notes on some geological Factors influencing their Distribution, 383.
- HILL, E. J. Notes on migratory Plants, 564.
- HOWE, M. A. Notes on North American Hepaticae, 281.
- Index to Recent Literature relating to American Botany, 55, 117, 175, 247, 317, 415, 481, 526, 576, 609, 650, 710.
- KIRKWOOD, J. E. & GIES, W. J. Chemical Studies of the Coconut, with some Notes on the Changes during Germination, 321.

- KNOWLTON, F. H. Notes on the fossil Fruits and Lignites of Brandon, Vt., 635 (Plate 25).
- Report on a small Collection of fossil Plants from the Vicinity of Porcupine Butte, Montana, 705 (Plate 26).
- KUPFER, E. M. Studies on *Urnula* and *Geopyxis*, 137 (Plate 8).
- LAMSON-SCRIBNER, F. & MERRILL, E. D. New or noteworthy North American Grasses, 466.
- LONG, W. H., JR. Texas Fungi.—I. Some new Species of *Puccinia*, 110.
- MAXON, W. R. See UNDERWOOD, L. M.
- MERRILL, E. D. See LAMSON-SCRIBNER, F.
- MURRILL, W. A. The Polyporaceae of North America.—I. The Genus *Ganoderma*, 599.
- NELSON, A. New Plants from Wyoming.—XIV, 400.
- O'BRIEN, A. A. Notes on the comparative Resistance to high Temperatures of the Spores and Mycelium of certain Fungi, 170.
- OSTERHOUT, G. E. *Hesperaster nudus* (Pursh) Cockerel and its Allies, 173.
- PECK, C. H. New Species of Fungi, 69.
- PIERCE, G. J. Forcible Discharge of the Antherozoids in *Asterella Californica*, 374.
- PIPER, C. V. New and noteworthy Northwestern Plants.—VI, 221; VII, 642.
- Notes on the biennial and perennial West American Species of *Lappula*, 535.
- RENNERT, R. J. Seeds and Seedlings of *Arisaema Dracontium*, 37 (Plate 3).
- RUSBY, H. H. An Enumeration of the Plants collected by Dr. H. H. Rusby in South America, 1885-1886.—XXXII, 694.
- RYDBERG, P. A. Studies in the Rocky Mountain Flora.—VII, 145; VIII, 232; IX, 680.
- SALMON, E. S. Supplementary Notes on the Erysiphaceae, 1, 83, 181, 647 (Plates 9-11); Indices, 302.
- SCHRENK, H. VON. On the Teaching of Vegetable Pathology, 57.
- SLOSSON, M. The Origin of *Asplenium ebenoides*, 487.
- TORREY, J. C. Cytological Changes accompanying the Secretion of Diastase, 420 (Plate 20).
- UNDERWOOD, L. M. American Ferns.—III. Our Genera of Aspidieae, 121.
- IV. The Genus *Gymnogramme* of the Synopsis *Filicum*, 617.
- V. A Review of the Genus *Danaea*, 669.
- UNDERWOOD, L. M., & MAXON, W. R. Notes on a Collection of Cuban Pteridophyta, with Descriptions of four new Species, 577.

- VAIL, A. M. Studies in the Asclepiadaceae.—VI. Notes on the Genus Rouliniella, 662.
- WHITE, C. A. The saltatory Origin of Species, 511.
- WHITE, V. S. The Nidulariaceae of North America, 251 (Plates 14-18).
- Some Mt. Desert Fungi, 550.
- WIGHT, W. F. The Genus Eritrichum in North America, 407.
- WILLIAMS, R. S. Two new Western Mosses, 66.

---

### Errata

- Page 11, line 17, insert end of bracket after sind.
- Page 13, line 7, for auf gestellten read aufgestellten.
- Page 13, last line, for p. 294 read p. 204.
- Page 14, line 4 from bottom, for Polla read Palla.
- Page 15, line 8, for morphologische read morphologisch.
- Page 15, line 13, for Specializrung read Specialisirung.
- Page 17, line 4 from bottom, *delete* the.
- Page 18, line 10, for 219 read 119.
- Page 84, line 17, for not read to.
- Page 84, line 20, for Pl. 9 read Pl. 11.
- Page 85, line 11 from bottom, for pp. read ff.
- Page 87, line 16 from bottom, *delete* the.
- Page 87, line 13 from bottom, for Siberia and Asia read Siberia in Asia.
- Page 87, last line, for skins read stems.
- Page 88, line 3, *delete* the.
- Page 91, line 1, after same insert name.
- Page 91, line 17 from bottom, *delete* the before *S. Humuli*.
- Page 93, line 4, for *Cladosorium* read *Cladosporium*.
- Page 93, line 8, for fungus on read fungous.
- Page 94, line 10, *delete* in.
- Page 95, line 20, for *Euphorbia Cyparissias palustris* read *Euphorbia Cyparissias* (40) *E. palustris*.
- Page 95, line 12 from bottom, for 145 read 147.
- Page 96, line 7, *delete* Although.

- Page 96, line 7, add of at end of line.  
Page 102, line 2, for Szumo read Izumo.  
Page 106, line 19, for Pl. 28 read Pl. 23.  
Page 107, line 10, for set read sent.  
Page 108, line 2, for attached read attacked.  
Page 182, line 16 from bottom, for pl. 1 read pl. 9.  
Page 190, line 11, for skin read stem.  
Page 191, line 10, for no. read near.  
Page 192, line 6, for habitat read habit.  
Page 195, line 4 from bottom, for 72 read 70.  
Page 201, line 9 from bottom, for 30 read 50.  
Page 207, line 12 from bottom, for f. 20 read f. 21.  
Page 208, line 3 from bottom, for tenibus read tenuibus.  
Page 547, line 17, the paragraphs commencing "The Cusick specimen" to the words "Brewer specimen" on page 548, line 14, belong under *Lappula Californica* on page 546.  
Page 628, line 7, for *Gymnopteris* read *Gymnopteris*.  
Page 498, line 20, for preceding read following.  
Page 499, line 7 from bottom, for 23 read 22.  
Page 501, line 14, for 24 read 23.  
Page 502, line 19, after pl. insert 22.  
Page 504, line 5, for 0.009 read 0.019.  
Page 504, line 21, for 24 read 23.  
Page 506, line 3, for 25 read 24.  
Page 507, line 12 from bottom, for 23 read 22.  
Page 509, line 13, after stenophylla insert and L. hamulata  
Page 509, line 18, after propagala insert (pl. 24. f. 10).  
Page 509, line 6 from bottom, for PLATE 23 read PLATE 22.  
Page 510, line 8, for PLATE 24 read PLATE 23.  
Page 510, line 21, for PLATE 25 read PLATE 24.